

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Taraxacum officinale*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
32	AESCULETIN	Flower	--	--		
32	ALPHA-TOCOPHEROL	Leaf	--	170	-0.5547164006283091	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
5	ALUMINUM	Root	94	656	0.03950108174380199	
1	ANEURINE	Plant	--	--		
1	ARNIDIOL	Flower	--	--		
2	ARSENIC	Leaf	--	--		Chem. & Pharm. Bull. 38: 2205.
112	ASCORBIC-ACID	Leaf	18	6520	0.16105282120258035	
112	ASCORBIC-ACID	Root	54	376	-0.4310352549627957	
9	BETA-AMYRIN	Root	--	--		
9	BETA-AMYRIN	Flower	--	--		
53	BETA-CAROTENE	Flower	--	--		
53	BETA-CAROTENE	Leaf	40	583	1.4009946671295506	
53	BETA-CAROTENE	Root	12	84	0.10069386823526054	
47	BETA-SITOSTEROL	Flower	--	--		
47	BETA-SITOSTEROL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
47	BETA-SITOSTEROL	Root	--	214	-0.27068071366460006	
3	BETA-SITOSTEROL-3-O-BETA-D-GLUCOPYRANOSIDE	Root	--	--		
4	BORON	Leaf	4	125	1.7366562696479586	Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
3	CADMIUM	Leaf	0.2	5	1.0824728791014093	
3	CADMIUM	Root	0.04	2.6	1.7629139450449156	
102	CAFFEIC-ACID	Flower	--	--		
102	CAFFEIC-ACID	Plant	--	--		
28	CALCIUM	Leaf	1870	13000	1.6258439789322057	
28	CALCIUM	Plant	12000	21000	0.7926875803133279	Chem. & Pharm. Bull. 38: 2205.
28	CALCIUM	Root	878	6140	-0.13829986219334658	
2	CAMPESTEROL	Leaf	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
3	CAPRIC-ACID	Pollen Or Spore	--	--		
7	CHLORINE	Leaf	5300	22000	2.379246850295476	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	CHLOROGENIC-ACID	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
20	CHOLINE	Root	390	1120	-0.280909507435247	
24	CHROMIUM	Leaf	0.2	50	3.6279964032474075	
24	CHROMIUM	Root	0.1	0.9	-0.3805576061834531	
2	COBALT	Root	1	8	-0.3715682083878844	
12	COPPER	Leaf	4	12	0.5873423835723849	
12	COPPER	Root	3	28	1.8022668436014682	
13	COUMESTROL	Plant	--	--		
2	CRYPTOXANTHIN	Flower	--	--		Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
7	CYCLOARTENOL	Leaf	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. <i>Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D)</i> , 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
7	CYCLOARTENOL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
7	CYCLOARTENOL	Pollen Or Spore	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
3	CYNAROSIDE	Flower	--	--		
5	DAUCOSTEROL	Root	480	480	0.12645077462758925	
2	FARADIOL	Plant	--	--		
2	FARADIOL	Flower	--	--		
61	FERULIC-ACID	Flower	--	--		
15	FIBER	Leaf	4000	111110	-0.43806976219057964	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	FIBER	Root	89000	89000	0.01972306003706211	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
8	FRUCTOSE	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
7	GLUCOSE	Root	5000	5000	-0.7978070163798161	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
8	GLUTAMIC-ACID	Leaf	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
8	GLYCEROL	Latex Exudate	--	--		
8	INOSITOL	Root	--	--		
8	INOSITOL	Latex Exudate	--	--		
19	INULIN	Root	42900	300000	0.05809078622496001	
19	INULIN	Plant	--	--		
12	IODINE	Leaf	--	--		Chem. & Pharm. Bull. 38: 2205.
6	IRON	Leaf	31	215	1.3606856309173474	
6	IRON	Root	14	96	-0.3021853183050419	
22	ISOQUERCITRIN	Flower	--	--		
11	ISORHAMNETIN	Flower	--	--		
7	LAURIC-ACID	Pollen Or Spore	--	--		
20	LECITHIN	Flower	29700	29700		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
20	LECITHIN	Root	--	--		
1	LEVULOSE	Plant	--	--		
27	LINOLEIC-ACID	Pollen Or Spore	--	--		
27	LINOLEIC-ACID	Root	--	--		
15	LUTEIN	Flower	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
78	LUTEOLIN	Flower	--	--		
7	LUTEOLIN-7-GLUCOSIDE	Leaf	--	--		
65	MAGNESIUM	Leaf	360	2500	-0.6277550204208067	
65	MAGNESIUM	Root	225	1570	-0.5276062015707126	
14	MANGANESE	Plant	100	130	0.23682926226746964	
14	MANGANESE	Leaf	14	130	-0.1174194411964242	
14	MANGANESE	Root	1	6.8	-0.4646750389625507	
18	MANNITOL	Root	--	--		
2	MOLYBDENUM	Plant	--	--		Chem. & Pharm. Bull. 38: 2205.
3	MUCILAGE	Root	11000	85000	-0.5660471669302359	
6	MYRISTIC-ACID	Pollen Or Spore	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	MYRISTOLEIC-ACID	Pollen Or Spore	--	--		
39	NIACIN	Root	4.7	33.1	-0.4967243334991701	
39	NIACIN	Leaf	8	71	-0.32234447241033354	
3	NICKEL	Leaf	0.4	5.6	-0.3163758105813781	
3	NICKEL	Plant	--	--		
3	NICKEL	Root	0.3	5.6	1.9774503536381358	
11	NICOTINIC-ACID	Root	--	--		
18	OLEIC-ACID	Pollen Or Spore	--	--		
18	OLEIC-ACID	Root	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
9	OXALIC-ACID	Leaf	--	1700	-0.42631261700793327	Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
25	P-COUMARIC-ACID	Flower	--	--		
25	P-COUMARIC-ACID	Plant	--	--		
13	PALMITIC-ACID	Root	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	PALMITIC-ACID	Pollen Or Spore	--	--		
24	PECTIN	Root	17160	120000	-0.14497379746592196	
1	PENTADECANOIC-ACID	Pollen Or Spore	--	--		
4	PHOSPHORUS	Root	518	3620	0.01796753238811398	
4	PHOSPHORUS	Leaf	590	4583	0.054560501723326035	
2	PHYTOSTEROLS	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
14	POTASSIUM	Leaf	3970	27569	-0.01519366768525743	
14	POTASSIUM	Root	1716	12000	-0.2766954649326155	
43	PROTOCATECHUIC-ACID	Flower	--	--		
176	QUERCETIN	Flower	--	--		
6	QUERCIMERITRIN	Flower	--	--		
15	RIBOFLAVIN	Leaf	1	18	-0.09348678211643267	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Root	0.3	2.1	-0.4321138905848174	
44	SCOPOLETIN	Flower	--	--		
60	SELENIUM	Root	0.1	0.9	-0.29843000767864497	
4	SILICON	Root	0.7	4.7	-0.3213144079930342	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	SODIUM	Root	162	1130	0.013372462792456278	
1	SODIUM	Leaf	760	5278	0.2940315620523972	
8	STEARIC-ACID	Pollen Or Spore	--	--		
12	STIGMASTEROL	Root	--	--		
12	STIGMASTEROL	Leaf	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
14	SUCROSE	Plant	--	--		
14	SUCROSE	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
14	SULFUR	Plant	2600	3300	-0.2375519291864939	Chem. & Pharm. Bull. 38: 2205.
35	TANNIN	Root	--	--		
2	TARAXASTEROL	Flower	--	--		
2	TARAXASTEROL	Root	--	--		
2	TARAXASTEROL	Latex Exudate	--	--		
2	TARAXEROL	Root	--	--		
1	TARAXINIC-ACID-1'-O-BETA-D-GLUCOPYRANOSIDE	Flower	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	TARAXINIC-ACID-1'-O-BETA-D-GLUCOPYRANOSIDE	Leaf	--	--		Hansel, R., Keller, K., Rimpler, H., and Schneider, G. eds. 1992. Hager's Handbuch der Pharmazeutischen Praxis, Drogen (A-D), 1209 pp., 1993 (E-O), 970 pp., 1994 (P-Z), 1196 pp. Springer-Verlag, Berlin.
1	TARAXINIC-ACID-1'-O-BETA-D-GLUCOPYRANOSIDE	Root	--	--		
6	TARTARIC-ACID	Root	--	--		
6	TARTARIC-ACID	Plant	--	--		
31	THIAMIN	Leaf	1	13	1.8121416088410889	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
31	THIAMIN	Root	--	--		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
4	TIN	Root	2	13	-0.35437186016542255	
1	TYROSINASE	Root	--	--		
24	VANILLIC-ACID	Flower	--	--		
2	VIOLAXANTHIN	Flower	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
3	XANTHOPHYLL	Plant	--	--		
3	XYLOSE	Plant	--	--		
77	ZINC	Leaf	21	230	0.8847458901948265	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
77	ZINC	Root	0.2	1.3	-1.0020091531784148	